DEPARTMENT of ENVIRONMENTAL SERVICES Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: GOLDFISH POND		Lake Area (ha):	2.30
Town: HOOKSETT		Maximum depth (m):	0.5
County: Hillsboro	ugh	Mean depth (m):	0.3
River Basin: Merrimack		Volume (m³):	7000
Latitude: 43°01'10"	N	Relative depth:	0.3
Longitude: 71°26'40"	W	Shore configuration:	1.45
Elevation (ft):	315	Areal water load (m/yr):	93.43
Shore length (m):	780	Flushing rate (yr^{-1}) :	560.6
Watershed area (ha):	445.8	P retention coeff.:	0.24
<pre>% watershed ponded:</pre>	0.0	Lake type:	

BIOLOGICAL:		21 August 2001
DOM. PHYTOPLANKTON (% TOTAL) #	1	NO PLANKTON
#	2	SAMPLES COLLECTED
#	3	
PHYTOPLANKTON ABUNDANCE (units/mL)	
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL) #	1	
#	2	
#	3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		Very abundant
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		3.4
BACTERIA (E. coli, #/100 ml) #	1	38
#	2	
#	3	

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None Hypolimnion volume (m^3) : None Anoxic volume (m^3) : None

CHEMICAL:	Lake: GOLDFISH POND Town: HOOKSETT			
		21 7	August 20	001
DEPTH (m)			-	
pH (units)		7.1		
A.N.C. (Alkalinity)		32.3		
NITRATE NITROGEN		< 0.05		
TOTAL KJELDAHL NITROGEN		0.60		
TOTAL PHOSPHORUS		0.031		
CONDUCTIVITY (µmhos/cm)		818.0		
APPARENT COLOR (cpu)		90		
MAGNESIUM		4.05		
CALCIUM		20.7		
SODIUM		103.0		
POTASSIUM		4.29		
CHLORIDE		220		
SULFATE		11		
TN : TP		19		
CALCITE SATURATION INDEX		1.4		

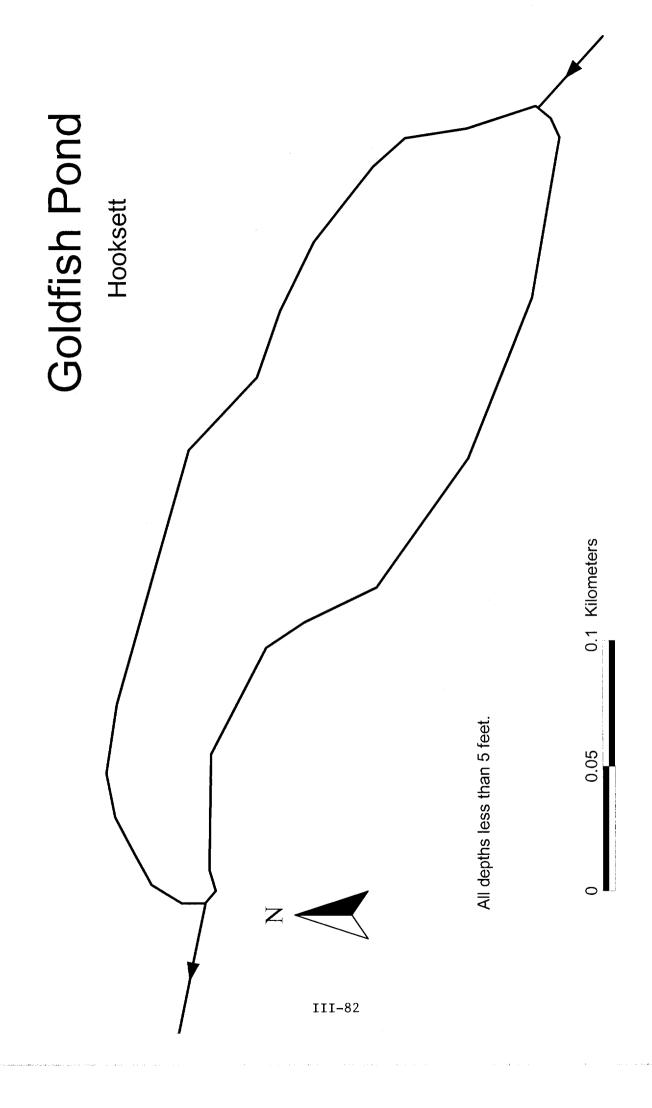
All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 2001

D.O.	s.D.	PLANT	CHL	TOTAL	CLASS
**	**	6	**	**	N/C

COMMENTS:

- 1. This is a small, very shallow wetland pond located upstream of Dorrs Pond. All depths were 0.5 meters or less. It is listed as a wetland in the lakes database and was not given a trophic class. It was too shallow for a Secchi disk reading.
- 2. It was sampled in conjunction with Manchester's Urban Ponds program.
- 3. The pond is located adjacent to the I93 interchange # 9 with Route 28. It is subject to runoff from highway and urban areas.
- 4. Elevated sodium, chloride and conductivity values suggest salt runoff from the adjacent highways.
- 5. The water was dark tea colored but not acidic.
- 6. The pond was not sampled during the winter; it was likely frozen to the bottom because of its shallow depth.



FIELD DATA SHEET

LAKE: GOLDFISH POND DATE: 08/21/2001

TOWN: HOOKSETT WEATHER: CLOUDY & CALM

	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
	0.1	22.6	3.4	39 %
<u> </u>				
			1	
	10			
				····

COMMENTS:

BOTTOM DEPTH (m): 0.5

TIME: 1030

*Dissolved oxygen values are in mg/L

Goldfish Pond Hooksett Z B Z B **>** z 0.1 Kilometers z z z Wooded III-84

AQUATIC PLANT SURVEY

LAK	E: GOLDFISH POND	FOWN: HOOKSETT	DATE: 08/21/2001
Vor	PLANT	NAME	ADUNDANCE
Key	GENERIC	COMMON	ABUNDANCE
С	Cyperaceae	Non-flowering sedge	Abundant
Y	Nuphar	Yellow water lily	Abundant
P	Pontederia cordata	Pickerelweed	Very abundant
W	Potamogeton	Pondweed	Abundant
b	Scirpus	Bulrush	Scattered
G	Gramineae	Grass family	Common
ប	Utricularia	Bladderwort	Very abundant
N	Nymphaea	White water lily	Abundant
Т	Typha	Cattail	Common
В	Brasenia schreberi	Water shield	Abundant
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		OVERALL ABUNDANCE	: Very abundant

GENERAL OBSERVATIONS:

1. This is more wetland than pond. The outlet was a wooded swamp.